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FORM PTO-1449/A and B (Modified)				APPLICATION NO.: 10/087,464	ATTY. DOCKET NO.: S01237/70019
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: March 1, 2002	CONFIRMATION NO. 8902
				APPLICANT: Athar H. Chishti et al..	
Sheet	1	of	3	GROUP ART UNIT: 1636 1645	EXAMINER: Unassigned

## U.S. PATENT DOCUMENTS

Examiner's Initials#	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		

## FOREIGN PATENT DOCUMENTS

Examiner's Initials#	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
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## OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials#	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
M	C1	AHLBORG, Niklas et al., "Protective Immune Responses to the 42-Kilodalton (kDa) Region of <i>Plasmodium yoelii</i> Merozoite Surface Protein 1 Are Induced by the C-Terminal 19-kDa Region but Not by the Adjacent 33-kDa Region," <i>Infection and Immunity</i> , 2002, Pages 820-825, Vol. 70, No. 2, American Society of Microbiology	/
M	C2	ANTHONY, Robert N. et al., "Sequence Analysis of the Rhop-3 Gene of <i>Plasmodium yoelii</i> ," <i>J. Eukaryot. Microbiol.</i> , 2000, Pages 319-322, Vol. 47, No. 3, Society of Protozoologists	/
M	C3	BONNEFOY, S. et al., "Immunogenicity and antigenicity of a Plasmodium falciparum protein fraction (90-110 kDa) able to protect squirrel monkeys against asexual blood stages," <i>Vaccine</i> , 1994, Pages 32-40, Vol. 12, No. 1, Abstract	/
M	C4	BROWN, Heidi J. et al., "Primary Structure of a <i>Plasmodium falciparum</i> rhoptry antigen," <i>Molecular and Biochemistry Parasitology</i> , 1991, Pages 99-110, Vol. 49, Elsevier Science Publishers B.V.	/
M	C5	CHANG, Sandra P. et al., "A Recombinant Baculovirus 42-Kilodalton C-Terminal Fragment of <i>Plasmodium falciparum</i> Merozoite Surface Protein 1 Protects Aotus Monkeys against Malaria," <i>Infection and Immunity</i> , 1996, Pages 253-61, Vol. 64, American Society of Microbiology	/
M	C6	CLOUGH, B. et al. "Mechanism of Regulation of Malarial Invasion by Extraerythrocytic Ligands", <i>Mol. Biochem. Parasitol.</i> , 1995, Pages 19-27, Vol. 69, Elsevier Science B.V.	/
M	C7	CURTIDOR, H. et al., " <i>Plasmodium falciparum</i> acid basic repeat antigen (ABRA) peptides: erythrocyte binding and biological activity," <i>Vaccine</i> , 2001, Pages 4496-4504., Vol. 19, Elsevier Science B.V.	/
M	C8	DHUME, Shirish, T. et al., "Polylactosamines are not obligate receptors for invasion of <i>Plasmodium falciparum</i> malaria as shown in HEMPAS Variant II-gal' erythrocytes", <i>Glycobiology</i> , 1994, Pages 903-908, Vol. 4, No. 6, Oxford University Press	/
M	C9	EGAN, Andrea F., et al., "Clinical Immunity of <i>Plasmodium falciparum</i> Malaria Is Associated with Serum Antibodies to the 19-kDa C-Terminal Fragment of the Merozoite Surface Antigen, PfMSP-1," <i>The Journal of Infectious Diseases</i> , 1996, Pages 765-769, Vol. 173, The University of Chicago	/
M	C10	FRIEDMAN, Milton J. et al. "Evidence for a Malarial Parasite Interaction Site on the Major Transmembrane Protein of the Human Erythrocyte", <i>Science</i> , 1985, Pages 75-77, Vol. 228	/
M	C11	GOOD, Michael F. et al., "Pathways and Strategies for Developing a Malaria Blood-Stage Vaccine," <i>Annu. Rev. Immunol.</i> , 1998, Pages 57-87, Vol. 16	/

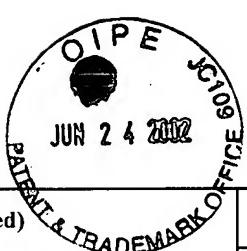
N.M. Mayfield 9/15/03



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M	C12	HIRUNPETCHARAT, Chakrit et al., "Complete Protective Immunity Induced in Mice by Immunization with the 19-Kilodalton Carboxyl-Terminal Fragment of the Merozoite Surface Protein-1 (MSP1 <sub>19</sub> ) of <i>Plasmodium yoelii</i> Expressed in <i>Saccharomyces cerevisiae</i> ," <i>The Journal of Immunology</i> , 1997, Pages 3400-3411, Vol. 159, The American Association of Immunologists	/	/
M	C13	JONES, G.L. et al. "Plasmodium falciparum Polypeptides Interacting With Human Red Cell Membranes Show High Affinity Binding to Band-3", <i>Biochem. Biophys. Acta</i> , 1991, Pages 71-76, Vol. 1097, Elsevier Science Publishers B.V.	/	/
M	C14	KUSHWAHA, Ashima et al., "Expression and characterization of <i>Plasmodium falciparum</i> acidic basic repeat antigen expressed in <i>Escherichia coli</i> ," <i>Molecular and Biochemical Parasitology</i> , 2000, Pages 213-224, Vol. 106, Elsevier Science B.V.	/	/
M	C15	KUSHWAHA, Ashima et al., "Immunogenicity of recombinant fragments of <i>Plasmodium falciparum</i> acidic basic repeat antigen produced in <i>Escherichia coli</i> ," <i>Parasite Immunology</i> , 2001, Pages 435-444, Vol. 23, Blackwell Science Ltd.	/	/
M	C16	MCPHERSON, Robert A., "Proteolytic digestion of band 3 at an external site alters the erythrocyte membrane organisation and may facilitate malarial invasion," <i>Molecular and Biochemical Parasitology</i> , 1993, Pages 233-242, Vol. 62, Elsevier Science Publishers B.V.	/	/
M	C17	MILLER, L.H. et al. "A Monoclonal Antibody to Rhesus Erythrocyte Band 3 Inhibits Invasion By Malaria ( <i>Plasmodium Knowlesi</i> ) Merozoites", <i>J. Clin. Invest.</i> , 1983, Pages 1357-1364, Vol. 72	/	/
M	C18	NIKODEM, David P. et al., "Identification of a novel antigenic domain of <i>Plasmodium falciparum</i> merozoite surface protein-1 that specifically binds to human erythrocytes and inhibits parasite invasion, <i>in vitro</i> ," <i>Molecular and Biochemical Parasitology</i> , 2000, Pages 79-91, Vol. 108, Elsevier Science B.V.	/	/
M	C19	OKOYE, V.C. et al. "Plasmodium falciparum Malaria Band 3 as a Possible Receptor During Invasion of Human Erythrocytes", <i>Science</i> , 1985, Pages 169-171, Vol. 227	/	/
M	C20	PERKINS, Margaret E. et al., "Sialic Acid-Dependent Binding of <i>Plasmodium falciparum</i> Merozoite Surface Antigen, Pf200, to Human Erythrocytes," <i>The Journal of Immunology</i> , 1988, Pages 3190-3196, Vol. 141, No. 9, The American Association of Immunologists, USA	/	/
M	C21	QARI, Shoukat H. et al., "Predicted and observed alleles of <i>Plasmodium falciparum</i> merozoite surface protein-1 (MSP-1), a potential malaria vaccine antigen," <i>Molecular and Biochemical Parasitology</i> , 1998, Pages 241-252, Vol. 92, Elsevier Science B.V.	/	/
M	C22	ROGGWILLER, Emmanuelle et al., "A role for erythrocyte band 3 degradation by the parasite gp76 serine protease in the formation of the parasitophorous vacuole during invasion of erythrocytes by <i>Plasmodium falciparum</i> ", <i>Molecular and Biochemical Parasitology</i> , 1996, Pages 13-24, Vol. 82, Elsevier Science B.V.	/	/
M	C23	SAM-YELLOWE, Tobili Y. et al., "Binding of <i>Plasmodium falciparum</i> rhoptry proteins to mouse erythrocytes and their possible role in invasion," <i>Molecular and Biochemical Parasitology</i> , 1990, Pages 91-100, Vol. 39, Elsevier Science Publishers B.V.	/	/
M	C24	SAM-YELLOWE, Tobili Y. et al., "Interaction of the 140/130/110 kDa Rhoptry Protein Complex of <i>Plasmodium falciparum</i> with the Erythrocyte Membrane and Liposomes," <i>Experimental Parasitology</i> , 1991, Pages 161-171, Vol. 73, Academic Press, Inc.	/	/
M	C25	SAM-YELLOWE, T.Y. et al., "A <i>Plasmodium falciparum</i> protein located in Maurer's clefts underneath knobs and protein localization in association with Rhop-3 and SERA in the intracellular network of infected erythrocytes," <i>Parasitol. Res.</i> , 2001, Pages 173-185, Vol. 87, Springer-Verlag	/	/
M	C26	SHARMA, Pawan et al., "Characterization of Protective Epitopes in a Highly Conserved <i>Plasmodium falciparum</i> Antigenic Protein Containing Repeats of Acidic and Basic Residues," <i>Infection and Immunity</i> , 1998, Pages 2895-2904, Vol. 66, No. 6, American Society of Microbiology	/	/
M	C27	SHIRANO, Michinori et al., "Conserved regions of the <i>Plasmodium yoelii</i> rhoptry protein RhopH3 revealed by comparison with the <i>P. falciparum</i> homologue," <i>Molecular &amp; Biochemical Parasitology</i> , 2001, Pages 297-299, Vol. 112, Elsevier Science B.V.	/	/
M	C28	STAHL, H.D. et al., "Sorting Large Numbers of Clones Expressing <i>Plasmodium falciparum</i> Antigens in <i>Escherichia coli</i> by Differential Antibody Screening," <i>Mol. Biol. Med.</i> , 1986, Pages 351-368, Vol. 3, Academic Press, Inc. (London) Ltd.	/	/
M	C29	STOWERS, Anthony W. et al., "A recombinant vaccine expressed in the milk of transgenic mice protects <i>Aotus</i> monkeys from a lethal challenge with <i>Plasmodium falciparum</i> ", <i>PNAS</i> , 2002, Pages 339-344, Vol. 99, No. 1	/	/

*M. Martinfield* 9/15/03



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	C30	SU, Shidong et al., "A Monoclonal Antibody Capable of Blocking the Binding of PF200 (MSA-1) to Human Erythrocytes and Inhibiting the Invasion of <i>Plasmodium falciparum</i> Merozoites into Human Erythrocytes," <i>The Journal of Immunology</i> , 1993, Pages 2309-2317, Vol. 151, No. 4, The American Association of Immunologists, USA	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	C31	URQUIZA, Mauricio et al., "Identification of <i>Plasmodium falciparum</i> MSP-1 peptides able to bind to human red blood cells," <i>Parasite Immunology</i> , 1996, Pages 515-526, Vol. 18, Blackwell Science Ltd.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	C32	WEBER, James L. et al., "Primary Structure of a <i>Plasmodium falciparum</i> Malaria Antigen Located at the Merozoite Surface and within the Parasitophorous Vacuole," <i>The Journal of Biological Chemistry</i> , 1988, Pages 11421-11425, Vol. 263, No. 23, USA	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	C33	YANG, J.C. et al., "Seroprevalence and Specificity of Human Responses to the <i>Plasmodium falciparum</i> Rhoptry Protein Rhop-3 Determined by Using a C-Terminal Recombinant Protein," <i>Infection and Immunity</i> , 1996, Pages 3584-3591, Vol. 64, No. 9, American Society of Microbiology	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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STATEMENT BY APPLICANT**

Sheet 1 of 1

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M	C34	CRANDALL I et al., Plasmodium falciparum: sera of individuals living in a malaria-endemic region recognize peptide motifs of the human erythrocyte anion transport protein. <i>Am J Trop Med Hyg.</i> 1995 May;52(5):450-5.	/
M	C35	HOLDER AA et al., Primary structure of the precursor to the three major surface antigens of Plasmodium falciparum merozoites. <i>Nature.</i> 1985 Sep 19-25;317(6034):270-3.	/
M	C36	LAND KM et al., Anti-adhesive antibodies and peptides as potential therapeutics for Plasmodium falciparum malaria. <i>Parasitol Today</i> 1995;11(1):19-23.	/
M	C37	PAN W et al., Vaccine candidate MSP-1 from Plasmodium falciparum: a redesigned 4917 bp polynucleotide enables synthesis and isolation of full-length protein from Escherichia coli and mammalian cells. <i>Nucleic Acids Res.</i> 1999 Feb 15;27(4):1094-103.	/
M	C38	STOUTE JA et al., The current status of malaria vaccines. <i>BioDrugs</i> 1998 Aug;10(2):123-36.	/

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